

Amendments to the Specification

Please replace the paragraph in page 14 lines 3 to 14 with the following amended paragraph:

FIGs. 2 and 3 show a construction of the sending apparatus 200. As shown in FIG. 2, the sending apparatus 200 has a personal computer 210, a transmitting unit 220 and an antenna 230. The personal computer 210 generates the document information. The transmitting unit 220 is connected to the personal computer 210. The transmitting unit 220 receives the document information from the personal computer 210, and converts the received document information into transmission data D. Further, the transmitting unit ~~200-220~~ generates a spread signal by performing a modulating operation, a spreading operation and an amplifying operation on the transmission data D. The spread signal is transmitted to the viewer 300 via the antenna 230.

Please replace the paragraph in page 19 lines 13 to 22 with the following amended paragraph:

In addition, in the aforementioned viewer system 100, the document information is transmitted from the sending apparatus 200 to the viewer 300 in the frequency hopping method. However, the communication method is not limited to the frequency hopping method. Another spread spectrum method, for example, direct sequence (DS) can be used. Furthermore, the communication medium is not limited to wireless. ~~the~~ The document information can be sent to the viewer 300 by wire communication. For example, coaxial cables, optical fiber cables or the like can be used as the communication lines.

Please replace the paragraph in page 50 line 2 from the bottom to page 51 line 10 with the following amended paragraph:

Next, a second embodiment of the receiving process (Hereinafter, it is referred to as a second receiving process.) will be described with reference to FIGs. 18 to 20. The second

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receiving process is an improved receiving process based upon the aforementioned first receiving process, and therefore, the basic part of the second receiving process is similar to the aforementioned first receiving process. The second receiving process is a process to receive the document information transmitted from the sending apparatus 200 by the second transmitting process, and it is carried out by the processing portion 330 of the viewer 300. In the second receiving process, the received document information can be ~~display~~displayed in various display forms.

Please replace the paragraph in page 52 lines 1 to 10 with the following amended paragraph:

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At step 123, the processing portion 330 operates in the following manner in order to receive the document information of the specific page from the sending apparatus 200. ~~Namley~~Namely, the receiving portion 320 receives the spread signal corresponding to the document information of the specific page, and then obtains the transmission data D from the received spread signal, and next feeds this transmission data D into the processing ~~portion~~portion 330. The processing portion 330 extracts the document information from the document information areas S2 of one block of this transmission data D.

Please replace the paragraph in page 66 lines 1 to 4 with the following amended paragraph:

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On the other hand, if the user selects the all page mode, the processing portion 240 ~~recognized~~recognizes that the all page mode has been selected, and therefore, the process proceeds from step 202 to step 211.

Please replace the paragraph in page 67 line 19 to page 68 line 3 with the following amended paragraph:

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Thus, the user who sends to the document information (i.e., sender) can be free to remove the document information that has been transmitted. For example, if the sender has

been transmitted the secret document information by mistake or accident, the sender can be remove this secret document information. Hence, it is possible to prevent leakage of secret information. Further, since the document information can be removed by the insignificant data transmitted from the sending apparatus 200, the sender can remove the document information by only manipulating the personal computer 210. Therefore, the sender can easily manage the document information.

Please replace the paragraph in page 76 line 18 to page 77 line 2 with the following amended paragraph:

At step 263, it is determined whether or not a predetermined time has passed since the viewer 300 was placed into the holding state. If the predetermined time has passed, the viewer 300 wakes up (step 264), and then, at step 265, it is determined whether or not the synchronization between the sending apparatus 200 and the viewer 300 can be maintained in the same manner as step 227. If the synchronization can be maintained, the process returns to step 261, and the holding state is continued. If it is impossible or difficult to maintain the synchronization, the process proceeds to step 266. Next, at step ~~226~~266, the removing process shown in FIG. 38 is carried out, and then, the third receiving process ends.

Please replace the paragraph in page 78 line 8 to page 79 line 7 with the following amended paragraph:

According to the third receiving process and the removing process, when it is impossible or difficult to maintain the synchronization between the sending apparatus 200 and the viewer 300, the document information that has been received by the viewer 300 can be removed. As mentioned above, the removing process is carried out while the viewer 300 is receiving the document information (step 228, 244). Therefore, if it is impossible or difficult to maintain the synchronization while the viewer 300 is receiving the document information, the reception of the document information can be stopped, and the received

document information can be removed. Further, the removing process is carried out while the viewer 300 is placed in the sleeping state (step 238 or 258). Therefore, if it is impossible or difficult to maintain the synchronization while the viewer 300 is placed in the sleeping state, the received document information can be removed. Furthermore, the removing process is carried out while the viewer 300 is placed in the holding state (step 266). Therefore, if it is impossible or difficult to maintain the synchronization while the viewer 300 is placed in the sleeping state, the received document information can be removed. In the removing process, since the document information that has been stored in the memory 341 the document information that has been displayed on the display ~~plane~~ panel 351, both of which are the same document information, are removed, the document information that exists in the viewer 300 is completely removed. Accordingly, it is possible to restrict leakage of the contents of the document information, and improve security.

Please replace the paragraph in page 81 line 3 from the bottom to page 82 line 9 with the following amended paragraph:

Next, at step 337, the processing portion 330 recognizes a page number input by the user as a "selected page". Next, at step 338, the processing portion 330 operates in the following manner in order to receive the document information of the selected page. Namely, the receiving portion 320 receives the spread signal corresponding to the document information of all pages, and then obtains the transmission data D from the received spread signal, and next feeds this transmission data D into the processing portion 330. Next, the processing portion 330 selects the block of the transmission data D which includes the document information of the selected page, and then ~~extract~~ extracts the document information from the selected block.

Please replace the paragraph in page 84 lines 3 to 22 with the following amended paragraph:

As shown in FIG. 43, when the second transmission order is selected, the blocks are transmitted as follows: first, one block located at the top of the first page N1 is transmitted; second, one block located at the top of the second page N2 is transmitted; third, one block located at the top of the third page N3 is transmitted; forth, one block adjacent to the block located at the top of the first page N1 is transmitted. In this manner, in the second transmission order, a page of a transmitted block is different from the page of the block transmitted immediately before a block located at a page different from the page in which the block that was transmitted immediately before is located is transmitted each time one block is transmitted. Namely, a different block included in a specific page is repeatedly transmitted, while the specific page is switched each time one block is sent. Consequently, the document information included in the respective pages are transmitted in parallel to each other, and substantially, all of the pages of the document information are transmitted at the same time. According to the second transmission order, it is possible to receive the document information of the selected page in short time, even if the selected page is the last page of the document information. Namely, the viewer 300 can receive the last page of the document information as well as the first page in short time.

Please replace the paragraph in page 85 lines 3 to 10 with the following amended paragraph:

In addition, the user can select any one of the aforementioned ~~three~~ three types transmission order types by manipulating the personal computer 210 of the sending apparatus 200. Furthermore, FIGs. 42 and 43 show ~~an~~ examples of the first transmission order control process embodied in the transmission of the document information of the textual format. Similarly, the first transmission order control process can be adapted for the transmission of the document information of the bitmap format.

Please replace the paragraph in page 85 line 18 to page 86 line 1 with the following amended paragraph:

B12 In the aforementioned transmitting process, when transmitting the document information to the viewer 300 in either the specific page mode or the all page mode, the sending apparatus 200 transmits the document information for each block. At this time, the processing portion 240 of the sending apparatus 200 may perform the second transmission order control process to control order of the transmission of the blocks. In the second transmission order control process, the two types of transmission orders, i.e. a regular transmission order and an irregular transmission order, can be selected.

Please replace the paragraph in page 87 line 2 from the bottom to page 88 line 15 with the following amended paragraph:

B13 If the irregular transmission order is selected, the order of characters arranged in one page is changed when the document information is divided into the blocks. Namely, each block is produced by extracting the characters from one page in an irregular and discontinuous order, for example, at random. For instance, as shown in FIG. 45, a block is produced by extracting characters g1 through g7 from one page. Therefore, the characters are sent to the viewer 300 in irregular order. Hence, if an error or some errors have occurred during the communication between the sending apparatus 200 and the viewer 300, a plurality of small blank spaces E3 are formed on the display panel 351, as shown in FIG. 46. As each blank space E3 corresponds to any one of characters, the area of the blank space is very small. Further, the blank spaces E3 are sprinkled. Consequently, the user can understand the contents of the displayed document information from the whole of the displayed document information, even if ~~the~~ an error or some errors have occurred during the communication.

Please replace the paragraph in page 88 lines 23 to 26 with the following amended paragraph:

3.15
Next, another embodiment of the viewer will be described with reference to FIGs. 47 and 48. In addition, in FIG. 47, the same constructional elements as those in FIG. 6 carry the same reference ~~number~~numbers and ~~explanation~~descriptions with respect to these elements are omitted.